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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTONION		
09/770,697		01/26/2001	Shigeru Yoshida	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
				MAT-8084US	6810	
23122	7590	12/09/2002				
RATNERPI	RESTIA					
P O BOX 980 VALLEY FORGE, PA 19482-0980				EXAMINER		
				CUEVAS, PEDRO J		
				ADTYDUE		
				ART UNIT	PAPER NUMBER	
				2834		
				DATE MAILED: 12/09/2002		
				== : 12/0//2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	pplicant(s)	
Office Action Summary		09/770,697	YOSHIDA ET AL.	
	omec Action Summary	Examiner	Art Unit	
	The MAILING DATE AND	Pedro J. Cuevas	2834	
Period	The MAILING DATE of this communication appoint for Reply	ears on the cover sheet with the c	orrespondence add	ress
- E a - If - If - F - Al	EHORTENED STATUTORY PERIOD FOR REPLY E MAILING DATE OF THIS COMMUNICATION. xtensions of time may be available under the provisions of 37 CFR 1.13 fter SIX (6) MONTHS from the mailling date of this communication. the period for reply specified above is less than thirty (30) days, a reply NO period for reply is specified above, the maximum statutory period will alliure to reply within the set or extended period for reply will, by statute, only reply received by the Office later than three months after the mailing carned patent term adjustment. See 37 CFR 1.704(b).	IS SET TO EXPIRE 3 MONTH(S) FROM ely filed will be considered timely.	
Status	_			
1)[2		eptember 2002 .		
2a)∑		action is non-final.		
3) Dispos	Since this application is in condition for allowan closed in accordance with the practice under Exition of Claims	ce except for formal matters, pro x <i>parte Quayle</i> , 1935 C.D. 11, 45	secution as to the r i3 O.G. 213.	nerits is
4)⊠	Claim(s) $1-19$ is/are pending in the application.			
	4a) Of the above claim(s) <u>4-11 and 14-18</u> is/are v	Vithdrawn from consideration		
5)[Claim(s) is/are allowed.	rundawn norn consideration.		
6)[\(\sigma\)	Claim(s) <u>1-3,12,13 and 19</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction and/or e	lection requirement.		
9)	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are: a) accepted	double of the same		
	Applicant may not request that any objection to the dr	or b) objected to by the Exami	ner.	
11)	The proposed drawing correction filed on is	awing(s) be neid in abeyance. See	37 CFR 1.85(a).	
	If approved, corrected drawings are required in reply t	on this Office patient	d by the Examiner.	
12)	The oath or declaration is objected to by the Exam	iner		
Priority ι	ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign pri	Ority under OF LLO G. A		
a)[☐ All b)☐ Some * c)☐ None of:	only under 35 U.S.C. § 119(a)-(c	t) or (f).	
	1. Certified copies of the priority documents ha	wo boom was a last		
	2. Certified copies of the priority documents ha	ive been received.	•	
	2. Certified copies of the priority documents ha3. Copies of the certified copies of the priority.	ive been received in Application	No	
* S	3. Copies of the certified copies of the priority of application from the International Bureau ee the attached detailed Office action for a list of the convergence of the certified copies of the priority of the certified copies of the certified c	ne certified copies not receive a		
17)LI A	cknowledgment is made of a claim for domestic pri	ority under 35 H.S.C. 8 110(a) (4)	0.2 provinianal	
	☐ The translation of the foreign language provision cknowledgment is made of a claim for domestic prices.			ication).
Attachment(s)	only under 35 U.S.C. §§ 120 and	d/or 121.	
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>10, 12</u> .	4) Interview Summary (PTo 5) Notice of Informal Paten 6) Other:	O-413) Paper No(s) it Application (PTO-152)	·
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DETAILED ACTION

Election/Restrictions

- 1. This application contains claims 4-11 and 14-18 drawn to an invention nonelected with traverse in Paper No. 8. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.
- 2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Response to Arguments

3. Applicant's arguments with respect to claims 1-3, 12-13, and 19 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3, 12-13, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,475,274 to Katakura in view of U.S. Patent No. 6,365,995 B1 to Fukuda et al.

Katakura clearly teaches the construction of motor comprising:

a rotor (2);

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a stator assembly (4) facing said rotor;

a motor base (8) including;

- a base section;
- a bearing supporter (13) for supporting a bearing (11) vertically with respect to said base section;
- a stator supporter (9), substantially concentric with said bearing supporter, for being mounted with said stator assembly, and

wherein said bearing supporter is unitarily formed with said stator supporter, and

further comprising a stator stopper (10) protrudently provided on said base section, wherein an inner wall of said stator assembly is fit on an outer wall of said stator supporter, and said stator stopper closely faces a lower end face of an outer wall of said stator assembly in an axial direction.

However, it fails to disclose a metal terminal disposed radially, by insert molding, around said bearing supporter substantially parallel a bottom face of said base section.

Fukuda et al. teach the construction of a brushless motor and it's assembly method having metal terminals (2a, 2e) disposed radially (Figure 1c) around a bearing supporter (9) substantially parallel a bottom face of a base section (2) for the purpose of providing a brushless motor that can be simultaneously reflow-soldered to a substrate and efficiently and densely mounted thereon in such a way that the coupled portion between the motor and the substrate has a high impact resistance.

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It would have been obvious to one skilled in the art at the time the invention was made to use the metal terminals disclosed by Fukuda et al. on the motor disclosed by Katakura for the purpose of providing a brushless motor that can be simultaneously reflow-soldered to a substrate and efficiently and densely mounted thereon in such a way that the coupled portion between the motor and the substrate has a high impact resistance (Abstract).

- 6. The method of forming the device, in this particular case insert molding, is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.
- 7. With regards to claims 12 and 19, it would have been obvious to one having ordinary skill in the art at the time the invention was made to select the unit area mass of the motor to be less than O.lg/mm², since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.
- 8. With regards to claim 13, Katakura disclose the construction of an apparatus (magnetic disk driving units) using the previously disclosed motor as clearly stated in column 2, lines 38-49. This well known electronic apparatus, have circuit boards and motor drivers among their elements.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

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10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas December 3, 2002

NESTOR RAMIREZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800